

ANTONIE VAN LEEUWENHOEK
VOLUME 44
1978

EDITORS:

| | | | |
|--------------------|------------------------|----------------------|-----------|
| A. FUCHS | DELFT, EDITOR-IN-CHIEF | | |
| P. BOS | DELFT | J. G. KUENEN | GRONINGEN |
| C. P. A. VAN BOVEN | MAASTRICHT | A. C. VAN DER LINDEN | OVERVEEN |
| G. W. VAN EIJK | BAARN | J. W. M. LA RIVIÈRE | DELFT |
| W. P. M. HOEKSTRA | UTRECHT | D. VAN DER WAAIJ | GRONINGEN |
| K. KERSTERS | GENT | D. YARROW | DELFT |

CONSULTING EDITORS:

| | | | |
|--------------------|------------|------------------|-----------|
| J. A. VON ARX | BAARN | A. H. STOUTHAMER | AMSTERDAM |
| A. L. HOUWINK | VOORBURG | J. VAN DER VEEN | NIJMEGEN |
| E. H. KAMPELMACHER | BILTHOVEN | H. VELDKAMP | GRONINGEN |
| J. DE LEY | GENT | M. WELSCH | LIÈGE |
| E. G. MULDER | WAGENINGEN | K. C. WINKLER | UTRECHT |
| L. H. C. PERQUIN | BREDA | | |

Antonie van Leeuwenhoek

Journal of Microbiology and Serology



H. VEENMAN & ZONEN B.V. PUBLISHERS
WAGENINGEN

CONTENTS

| | |
|---|-----|
| Abdelal, A. T. <i>see</i> Ogletree, F. F. | |
| Ahearn, D. G. <i>see</i> Ogletree, F. F. | |
| Algeri, A., Tassi, F., Ferrero, I. and Puglisi, P. P. Different phenotypes for the lactose utilization system in <i>Kluyveromyces</i> and <i>Saccharomyces</i> species | 182 |
| Assink, H. A. <i>see</i> Wiersma, M. | |
| Blijham, J. M. <i>see</i> Middelhoven, W. J. | |
| Borst, J. and de Jong, J. H. L. Typing of <i>Neisseria gonorrhoeae</i> by pyocins | 254 |
| Borst, J., van der Snee-Enkelaar, A. C. and Meuzelaar, H. L. C. Typing of <i>Neisseria gonorrhoeae</i> by pyrolysis mass spectrometry | 253 |
| Chico, E., Olavarria, J. S. and Nunez de Castro, I. L-Alanine as an end product of glycolysis in <i>Saccharomyces cerevisiae</i> growing under different hypoxic conditions | 193 |
| Cichy, J. <i>see</i> van der Waart, M. | |
| Claus, D. <i>see</i> Hunger, W. | |
| den Daas-Slagt, H. J. <i>see</i> Marcelis, J. H. | |
| Dankert, J. The use of a mobile cross-flow unit in open-heart surgery: A bacteriological evaluation | 247 |
| De Rouck-Houben, A. M. J. <i>see</i> van der Waay, D. | |
| De Smedt, J. Intra- and intergeneric similarities of the rRNA cistrons of <i>Agrobacterium</i> and their significance for the taxonomy of this genus | 115 |
| Dirks-Go, S. I. S. Latex agglutination, CIE and protein A co-agglutination in the diagnosis of bacterial meningitis | 254 |
| Dominguez, A., Elorza, M. V., Santos, E., Villanueva, J. R. and Sentandreu, R. Inositol deficiency in yeast: metabolic, enzymatic and autoradiographic studies | 341 |
| Dominguez, A., Villanueva, J. R. and Sentandreu, R. Inositol deficiency in <i>Saccharomyces cerevisiae</i> NCYC 86 | 25 |
| Dominguez, A., Villanueva, J. R. and Sentandreu, R. Biosynthesis of <i>Saccharomyces cerevisiae</i> glycoproteins: Nature of some participating glycolipids | 183 |
| Drexhage, H. A., van der Gaag, R. D. and Namavar, R. Nitroblue tetrazolium-dye reduction by rat peritoneal macrophages during the uptake of <i>Diplococcus pneumoniae</i> | 377 |
| van Dijk, W. C. <i>see</i> Verbrugh, H. A. | |
| van Dijk, W. C., Verbrugh, H. A., Peters, R., van der Tol, M. E. and Verhoef J. Sensitivity to serum and phagocytosis by polymorphonuclear leucocytes of <i>E. coli</i> | 251 |
| Eipel, H. E. <i>see</i> Hutter, K.-J. | |
| Elorza, M. V. <i>see</i> Dominguez, A. | |
| van Elsas, J. D. <i>see</i> Steensma, H. Y. | |
| van Embden, J. D. A. Translocation of an ampicillin resistance determinant within an R-factor aggregate in <i>Salmonella panama</i> | 203 |
| Engelbrecht, E. Costs and benefit of the mechanisation of tests on serially diluted samples | 462 |
| van Eijk, J. <i>see</i> Middelhoven, W. J. | |

- van Eykelenburg, C. A glucan from the cell wall of the cyanobacterium *Spirulina platensis* 321
- Fabius, G. Th. J., van Gestel, M. and Mouton, R. P. Comparison of discs and tablets for antibiotic sensitivity testing 459
- Ferragut C. and Leclerc, H. Characterization of motile and acetoin-negative *Klebsiella pneumoniae* strains by DNA: DNA hybridization 407
- Ferroro, I. *see* Algeri, A.
- Fuchs, A. and de Vries, F. W. Bacterial breakdown of benomyl I. Pure cultures 283
- Fuchs, A. and de Vries, F. W. Bacterial breakdown of benomyl. II. Mixed cultures 293
- van der Gaag, R. D. *see* Drexhage, H. A.
- van Gestel, M. *see* Fabius, G. Th. J.
- Gilles, M. Intra- and intergeneric similarities of the rRNA cistrons of *Acetobacter* and *Gluconobacter* 117
- Gips, C. H. *see* van der Waart, M.
- Goldberg, I. *see* Rokem, J. S.
- de Graaf, J. *see* Namavar, F.
- Hansen, T. A. *see* Wiersma, M.
- Harder, W. *see* Wiersma, M.
- Harmsen, H. *see* Wagenvoort, J. H. W.
- Heinen-van Borries, U. J. *see* Weerkamp, A.
- van der Hoeven, J. S. Investigation to the ecological significance of bacteriocins from *Streptococcus mutans* 249
- Hoogkamp-Korstanje, J. A. A. *see* Marcelis, J. H.
- Hopsu-Havu, V. K., Tunnela, E. and Yarrow, D. *Candida sonckii* sp. nov. . . 435
- Hubálek, Z. and Kocková-Kratochvílová, A. Liquid nitrogen storage of yeast cultures. I. Survival, and literature review of the preservation of fungi at ultralow temperatures 229
- Huizenga, J. R. *see* van der Waart, M.
- Hunger, W. and Claus, D. Reisolation and growth conditions of *Bacillus agar-exedens* 105
- Hutter, K.-J. and Eipel, H. E. Flow cytometric determinations of cellular substances in algae, bacteria, moulds and yeasts 269
- Jamasbi, R. J. and Paulissen, L. J. Influence of bacteriological media constituents on the reproduction of *Salmonella interitidis* bacteriophages . . 49
- Johannsen, E. *see* van der Walt, J. P.
- de Jong, J. H. L. *see* Borst, J.
- Kersters, K. Taxonomy of *Alcaligenes* and *Achromobacter* by polyacrylamide gel electrophoresis of their soluble proteins 116
- Khadar Boutahar-Trouw, B. J. *see* Wagenvoort, J. H. T.
- Khuller, G. K. *see* Trana, A. K.
- van Knapen, F. and Panggabean, S. O. Detection of circulating antigen during the acute stage of toxoplasmosis 460
- Kocková-Kratochvílová, A. *see* Hubálek, Z.
- Konings, W. N. *see* Michels, P. A. M.
- Kreger-van Rij, N. J. W. Ultrastructure of the ascospores of the new yeast

| | |
|--|-----|
| genus <i>Sporopachydermia</i> Rodrigues de Miranda | 451 |
| Kumar, A. and Sharma, V. K. Enterobacteria of emerging pathogenic significance from clinical cases in man and animals and detection of toads and wall lizards as their reservoirs | 219 |
| Leclerc, H. <i>see</i> Ferragut, C. | |
| Lindner, J. G. E. M. and Marcelis, J. H. Quantitative gas chromatography of <i>Bacteroides</i> species under different growth conditions | 1 |
| López-Romero, E. and Ruiz-Herrera, J. Properties of β -glucan synthetase from <i>Saccharomyces cerevisiae</i> | 329 |
| MacLaren, D. M. <i>see</i> Namavar, F. | |
| Marcelis, J. H. <i>see</i> Lindner, J. G. E. M. | |
| Marcelis, J. H., den Daas-Slagt, H. J. and Hoogkamp-Korstanje, J. A. A. Iron requirement and chelator production of staphylococci, <i>Streptococcus faecalis</i> and enterobacteriaceae | 257 |
| Meuzelaar, H. L. C. <i>see</i> Borst, J. | |
| Meyer, S. A., Smith, M. Th. and Simone Jr., F. P. Systematics of <i>Hanseniaspora</i> Zilkes and <i>Kloeckera</i> Janke | 79 |
| Meijers, J. A. and Stobberingh, E. E. Influence of restriction on the transfer of resistance against antibiotics in <i>Staphylococcus aureus</i> | 118 |
| Michels, P. A. M. and Konings, W. N. The proton motive force in isolated membrane vesicles and chromatophores from <i>Rhodopseudomonas sphaeroides</i> | 115 |
| Middelhoven, W. J., van Eijk, J., van Renesse, R. and Blijham, J. M. A mutant of <i>Saccharomyces cerevisiae</i> lacking catabolic NAD-specific glutamate dehydrogenase: Growth characteristics of the mutant and regulation of enzyme synthesis in the wild-type strain | 311 |
| Mouton, R. P. <i>see</i> Fabius, G. Th. J. | |
| Namavar, F. <i>see</i> Drexhage, H. A. | |
| Namavar, F., de Graaff, J. and MacLaren, D. M. Taxonomy of coagulase-negative staphylococci: a comparison of two widely used classification schemes | 425 |
| Niermeijer, P. <i>see</i> van der Waart, M. | |
| Núñez de Castro, I. <i>see</i> Chico, E. | |
| Ogletree, F. F., Abdelal, A. T. and Ahearn, D. G. Germ-tube formation by atypical strains of <i>Candida albicans</i> | 15 |
| Olavarria, J. S. <i>see</i> Chico, E. | |
| Paliwal, D. K. and Randhawa, H. S. A rapid pigmentation test for identification of <i>Cryptococcus neoformans</i> | 243 |
| Panggabean, S. O. <i>see</i> van Knapen, F. | |
| Paulissen, L. J. <i>see</i> Jamasbi, R. J. | |
| Peters, R. <i>see</i> van Dijk, W. C., <i>see also</i> Verbrugh, H. A. | |
| Puglisi, P. P. <i>see</i> Algeri, A. | |
| Randhawa, H. S. <i>see</i> Paliwal, D. K. | |
| Reichler, J. <i>see</i> Rokem, J. S. | |
| van Renesse, R. <i>see</i> Middelhoven, W. J. | |
| Robertson, L. A. <i>see</i> Steensma, H. Y. | |
| Rodrigues de Miranda, L. A new genus: <i>Sporopachydermia</i> | 439 |

- Rokem, J. S., Reichler, J. and Goldberg, I. Electron microscopy of methanol-utilizing bacteria 123
- Ruiz-Herrera, J. *see* López-Romero, E.
- Santos, E. *see* Dominguez, A.
- Schuurs, A. *see* van der Waart, M.
- Sehgal, S. C. *see* Trana, A. K.
- Sentandreu, R. *see* Dominguez, A.
- Sethunathan, H. *see* Sudhakar-Barik
- Sharma, V. K. *see* Kumar, A.
- Siddaramappa, R. *see* Sudhakar-Barik
- Simone Jr., F. P. *see* Meyer, S. A.
- Smith, M. Th. *see* Meyer, S. A.
- van der Snee-Enkelaar, A. C. *see* Borst, J.
- Snelting, A. *see* van der Waart, M.
- Sonderkamp, H. J. *see* van Straten, R.
- Steensma, H. Y., Robertson, L. A. and van Elsas, J. D. The occurrence and taxonomic value of PBS X-like defective phages in the genus *Bacillus* . . 353
- van Straten, R. and Sonderkamp, H. J. Impedance as a parameter for bacterial growth in medical microbiology 458
- Stobberingh, E. E. *see* Meijers, J. A.
- Sturm, A. W. *ureaplasma urealyticum* and infertility 460
- Stuy, J. H. On the nature of nontypable *Haemophilus influenzae* 367
- Sudhakar-Barik, Siddaramappa, R., Wahid, P. A. and Sethunathan, N. Conversion of *p*-nitrophenol to 4-nitrocatechol by a *Pseudomonas* sp. . 171
- Tassi, F. *see* Algeri, A.
- Tieleman-Speltie, T. M. *see* van der Waay, D.
- van der Tol, M. E. *see* van Dijk, W. C.
- Trana, A. K., Sehgal, S. C. and Khuller, G. K. Antibodies to phospholipids in experimental nocardiosis 391
- Verbrugh, H. A. *see* van Dijk, W. C.
- Verbrugh, H. A., van Dijk, W. C., Peters, R. and Verhoef, J. Kinetics of IgG and complement dependent opsonization of *Staphylococcus aureus* . . 252
- Verhoef, J. *see* van Dijk, W. C. *see also* Verbrugh, H. A.
- Versteegh, G. *see* Wiersma, M.
- Villanueva, J. R. *see* Dominguez, A.
- Vogels, G. D. *see* Weerkamp, A.
- de Vries, F. W. *see* Fuchs, A.
- van der Waay, D., Tieleman-Speltie, T. M. and De Rouck-Houben, A. M. J. Relation between the faecal concentration of various potentially pathogenic microorganisms and infections in individuals (mice) with severely decreased resistance to infection 395
- van der Waart, M., Snelting, A., Cichy, J., Niermeijer, P., Gips, C. H., Huizenga, J. R. and Schuurs, A. The hepatitis B-related 'e' antigen-antibody system as measured by enzyme-immunoassay 461
- Wagenvoort, J. H. T., Harmsen, H. and Khadar Boutahar-Trouw, B. J. Age prevalence of mumps determined by plaque-neutralising antibodies . . 457
- Wahid, P. A. *see* Sudhakar-Barik.

| | |
|--|-----|
| van der Walt, J. P., Johannsen, E. and Yarrow, D. <i>Torulopsis azyma</i> , two new, haploid species of ascomycetous affinity | 97 |
| Weerkamp, A., Heinen-von Borries, U. J. and Vogels, G. D. Biochemical and ultrastructural changes in <i>Staphylococcus aureus</i> treated with staphylococcin 1580 | 35 |
| Welling, G. W. <i>see</i> Wiersma, M. | |
| Wiersma, M., Hansen, T. A. and Harder, W. Effect of environmental conditions on the production of two extracellular proteolytic enzymes by <i>Vibrio</i> SA 1 | 129 |
| Wiersma, M. and Harder, W. A continuous culture study of the regulation of extracellular protease production in <i>Vibrio</i> SA 1 | 141 |
| Wiersma, M., Versteegh, G., Assink, H. A., Welling, G. W. and Harder, W. Purification and some properties of two extracellular proteolytic enzymes produced by <i>Vibrio</i> SA 1 | 157 |
| Yagiu, M. <i>see</i> Young, T. W. | |
| Yarrow, D. <i>see</i> Hopsu-Havu, V. K. <i>see also</i> van der Walt, J. P. | |
| Young, T. W. and Yagiu, M. A comparison of the killer character in different yeasts and its classification | 59 |